

HORVATH, Z.; BARTHA, A.; PAPP, L.; JUHASZ, Madelaine

On feline rhinotracheitis. Acta vet. acad. sci. Hung. 15 no.4:
417-420 '65.

1. Department and Clinic of Internal Medicine (Director: Prof.
Z. Horvath) of the University of Veterinary Sciences and Insti-
tute of Epizootiology (Director: J. Meszaros) of the University
of Veterinary Sciences, Budapest. Submitted January 25, 1965.

HUNGARY

PARTHA, A., JUHASZ, Magdalene, LIEBERMAN, H.; University of Veterinary Sciences, Department of Epizootiology (chairman: MESZAROS, J.) (Allatorvostudományi Egyetem, Jarvanytani Tanszek), Budapest, and Friedrich Loeffler Institute of the German Academy of Agricultural Sciences (DAL -- Deutsche Akademie der Landwirtschaftswissenschaften) (president: ROHRER, H.) Insel Riems bei Greifswald [original language version not given].

"Isolation of a Bovine Herpesvirus from Calves With Respiratory Disease and Keratoconjunctivitis. Preliminary Report."

Budapest, Acta Veterinaria Academiae Scientiarum Hungaricae, Vol XVI, No 3, 1966, pages 357-358.

Abstract: [English article] Two to four weeks after recovery from epidemic pneumoenteritis, involving 1-4 month -old calves and caused by type 4 bovine adenovirus, about half of the surviving animals developed severe keratoconjunctivitis followed by ulceration and total loss of sight. Out of 5 samples taken from the discharge, one virus strain was isolated other than the type 4 adenovirus: bovine herpesvirus. The isolation and properties of the latter are described briefly. Attempts to produce keratoconjunctivitis in calves with the isolated virus were unsuccessful. This, however, does not exclude their possible pathogenic role under different conditions. Attention is called to the need of examining the incidence and possible etiological role of undescribed herpesviruses in the numerous respiratory and ophthalmological affections of calves encountered recently. No references. [Manu-

BARTHA, Adorjan, dr., az allatorvostudományok kandidátusa; ALDASY,
Pal, dr., az allatorvostudományok kandidátusa

Adenovirus strains from cattle infested with virus diarrhea.
Magy allatorv lap 19 no.1:8-10 Ja '64.

1. Chair of Epidemiology, University of Veterinary Medicine
(Head of Chair: Academician Dr. Rezső Manninger), Budapest
(for Bartha). 2. Director, Miskolc Institute of Veterinary
Hygiene, Miskolc (for Aldasy).

HUNGARY

MANNINGER, Rezso, Dr, academician, BARTHA, Adorjan, Dr, candidate of Veterinary Sciences, JUHASZ, Magda, Dr, SZENT IVANYI, Tamas, Dr, candidate of Veterinary Sciences; Veterinary Medical University, Department of Epidemiology (Allatorvostudományi Egyetem Jarvanytani Tanszeke) (department head: MANNINGER, Rezso, Dr, professor, academician).

"Investigations on the Etiology of Virus Diarrhea of Cattle in Hungary."

Budapest, Magyar Allatorvosok Lapja, Vol 6, No 18, June 63, pp 225-227.

Abstract: [Authors' English summary modified] By the use of monolayer cultures, cytopathological virus strains could be isolated in only four out of 28 herds of cattle showing symptoms of virus diarrhea. The isolated virus strains were proven to be identical with each other and with the Oregon C24V virus on cross virus neutralization tests. The lesions produced by the viruses were identical as well. ECBO and bovine adenovirus were also isolated from fecal samples of the diseased cattle. The results of the investigation indicate that the etiological agent of the disease in Hungary is identical with the strain Oregon C24V virus isolated in the USA. The possibility, however, that serologically and immune-biologically identical, non-cytopathogenic strains may also play a role in the etiology of the disease, can not be excluded. 2 Hungarian, 2 Western references.

1/1

BARTHA, Antal

Sarkel, the underwater town. Elet tud 16 no.7:199-203 12 F '61.

1. Magyar Tudomanyos Akademia Tortenettudomanyi Intezetének
tudomanyos munkatarsa.

BARTHA, Antal

The last pagan revolt. Elet tud 15 no.39:1219-1222 25 S
'60.

1. Magyar Tudományos Akademia Történettudományi Intézetének
tudományos munkatársa, Budapest.

BARTHA, Antal

How did the Hungarians practice agriculture in the Middle Ages?
Elet tud 18 no.10:291-294 10 Mr '63.

SARINA, B.

and others. Resolutions of the Central Organizational Committee of the Voluntary Association for Defense of the Fatherland shall be observed. p. 13.

ARIPILE PATRIEI, Bucuresti, Vol. 1, no. 4, Apr. 1955.

SC: Monthly list of East European Accessions, (MEMO), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

BARTHA, E.

Effect of sampling on the determination of the quality of steel. p. 536.

(KOHASZATI LAPOK, Budapest; Vol. 9, no. 12, Dec. 1954.)

East

SO: Monthly list of European Accessions. (EEAL), LC, Vol. 4, no. 2, Jan. 1955, Uncl.

ORSOS, Sandor,; BARTHA, Eva.

Effect of prolonged anesthesia on growth of incisors in rats.
Kiserletes orvostud. 7 no.3:248-250 May 55.

1. Debreceni Orvostudományi Egyetem Stomatológiai Klinikája.
(TEETH, physiology,
eff. of anesth. on growth of incisors in rats)
(ANESTHESIA, effects,
on growth of incisors in rats)

Bartha, E.

✓ 5190. Effect of prolonged sleep on eruption rate of the rat's incisor. S. Orsó and E. Bartha *Acta physiol. Acad. Sci. hung.* 1958, 9, 237-241 (Dept. of Stomatology, Med. Univ., Debrecen, Hungary).—Prolonged sleep (18 to 20 hr./day) maintained by paraldehyde-ethylurethane or Na-phenobarbital for up to 4 weeks accelerates eruption rate of upper incisors in rats. The clinical crown did not increase concomitantly. The increased eruption rate was not caused by increased attrition or by lessened functional activity. It is assumed that prolonged sleep removes cerebral inhibition of eruption. (Hungarian) A. B. L. BEZNAK.

BARTHA, E.; JENIKOVA, M.; JANIK, M.

Preliminary results in the treatment of bone tuberculosis with so-called minor antitubercular agents. Acta chir. orthop. traumat. Czech. 32 no.2:138-142 Apr'65.

1. I. chirurgické oddelenie Liečebne pre tuberkulózu vo Vysokých Tatrách, (riadiťel liečebne ašUDr. I. Urge).

BARTHA, F.

"Geologic results of the fine-stratigraphic investigation of the Upper-Pannonian formations in the area of Ika Salaton." p. 23.

FOLDTANI KOZLOVY. BULETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY. (Magyar Foldtani Tarsulat). Budapest, Hungary, Vol. 86, No. 1, Jan./Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

BARTHA, Ferenc, dr.; JENNY, Endre, dr.; MORIK, Jozsef, dr.; REPASSY, Istvan, dr.; VEDRES, Istvan, dr.

Study on the hygienic conditions at the tobacco plant and nicotine establishment in Debrecen. Fight against just and incotineinjuries. *Nepesegszegugy* 35 no.7:182-187 July 54.

1. Közlemeny o debreceni Orvostudományi Egyetem Közegeszegztani Intezetebol (igazgato: Jeney Endre, dr. egyetemi tanar)

(INDUSTRIAL HYGIENE

Hungary, Debrecen, tobacco plant hygienic cond.)

(DUST, injurious effects

tobacco plant Hungary, prev. measures)

(NICOTINE, injurious effects

tobacco plant workers, Hungary, prev. measures)

BARTHA, F.

Biometric analysis of the *Heteraster zircensis* Szorenyl. p. 57, (FCID-TANIKOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY, Budapest, Hungary). Vol. 84, No. 1/2, Jan./June 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

GONCZOL, Ilona, dr.; BARTHA, Ferenc, dr.

Examinations on penicillin hypersensitivity in the workers
of the Hajdusagi Pharmaceutical Factory. Nepegeszsegugy 37
no.3:72-73 March 56.

1. Kozlemeny a debreceni Orvostudomanyi Egyetem Bor-es
Nemikortani Klinikarol (igazgato: Szodoray, Lajos dr.
egyetemi tanar) es Kozgeszsegtani Intezelbol (igazgato:
Jeny, Endre dr. egyetemi tanar).

(PENICILLIN, inj. eff.

hypersensitivity, examination of workers in drug
indust. in Hungary (Hun))

(OCCUPATIONAL DISEASES

penicillin hypersensitivity in workers in drug indust.,
determ. in Hungary (Hun))

(ALLERGY

to penicillin, hypersensitivity in workers in drug indust.,
determ. in Hungary (Hun))

BARTHA, F.; SOOS, L.

Pillicent mollusks of Balatonszentgyorgy. In German. p. 51. Vol. 6, 1955
MAGYAR NEMZETI MUZEUM TERMESZETTUDOMANYI MUZEUM EVKONYVE. ANNALES HISTORICO-
NATURALES MUSEI NATIONALIS HUNGARICI. Budapest, Hungary.

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

BARTHA, FERENC

The fauna of the Pannonian period at Tab. German and Russian summaries. illus., maps, bibl., diagrs., graphs, tables. (A tabi pannoniai koru fauna. 482-495 p. 1956 Budapest)

SO: Monthly list of East European Accession (EEAL) IC. Vol. 6, no. 7, July 1957, Uncl.

FERENC, Bartha, dr.

Medical training in peoples democracies. Nepegeszseguy 38 no.5:
109-113 May '57.

(EDUCATION, MEDICAL
in peoples democracies (Hun))

EXCERPTA MEDICA Sec 17 Vol 5/6 Public Health June 59

1690. THE EPIDEMIOLOGICAL ROLE OF DOGS AND CATS IN THE SPREAD OF TRICHINOSIS - Adatok a kutyák és macskák járványtani szerepéhez a trichinellózis terjesztésében - Bartha F. and Kondor L. Debreceni Orvostud. Egyet. Közegészségtani Intézete - EGÉSZSÉGTUDOMÁNY 1958, 11/3 (219-221) Tables 1

Examination of muscles from 410 dogs and 200 cats in the urban part of Debrecen showed infection with trichinella in 2.4 and 2.5% respectively. The infection of dogs and cats is considered a possible link in the chain by which endemic trichinosis is maintained, and is thought to be an indicator of the density of the disease.

BARTHA, F.

Frígyes Ivanyi, 1916-1959. Orv. hetil. 100 no.11:381 15 Mar 59.

(OBITUARIES

ivanyi, Frígyes (Hun))

MESTER, Antal; K.NAGY, Gabor; BARTHA, Ferenc

The problem of nutrition of infants with severe atrophy.
Gyermekegygyaszat 11 no.11:344-349 N '60.

1. Jarasi Tanacs Korhaza, Berettyoujfalu. (Igazgato: Dr.Mako Istvan.
(INFANT NUTRITION DISORDERS ther)

BARTHA, Ferenc, dr.

The 15 years of the liberation in high and middle grade health
education. Nepegeszegy 41 no.4:102-108 Ap '60.
(HEALTH EDUCATION)

BARTHA, Ferenc, dr.

Problems concerning certain aspects of public health in the Soviet Union. Nepegeszsegugy 41 no.9:245-252 S '60.

1. A Szovjetunióban járt egészségügyi küldöttségek egyes csoportjainak jelentése alapján összeállította.
(PUBLIC HEALTH)

BARTHA, Ferenc, dr.

Some problems of the reform of medical education. Nepegeszsegugy
43 no.7:193-198 J1 '62.

(EDUCATION, MEDICAL)

BARTHA, F.

Biostratigraphic investigation of the Upper Cretaceous coal-containing complexes in the southern part of the Bakony Mountains. Acta geol Hung 7 no.3/4:359-398 '62.

1. Institut geologique de Hongrie, Budapest.

BARTHA, Ferenc, dr.

Biostratigraphic investigation of the Upper Cretaceous
stone coal formations in the South Bakony. Foldt
kozy 42 no.2:203-208 Ap-Je '62.

BARTHA, Ferenc, dr.; KECSKEMETINE Kormendy, A,

Biostratigraphical investigations on the Eocene molluscan
formations in the Dorog basin. Foldt kozl 93 no. 4:
451-465 S-D '63.

MARTON, Kalman, dr.,; BARTHA, Gabor, dr.,; TAMAS, Gyula.

Effect of ultrasonics on cultures of fungi. *Borogygy. vener.*
szemle 8 no.3:83-87 May 54

1. A Budapesti Orvostudományi és Egészségügyi Fizikai Intézetnek
(Igazgató: Tarján Imre dr., egyetemi tanár) és a budapesti Bor-
es Nemikortani Klinikájának (Igazgató: Foldvari Ferenc dr.,
egyetemi tanár) közleménye.

(FUNGI, effect of radiations,
ultrasonics)

(ULTRASONICS, effects,
on fungi)

BARTHA, I

BARTHA, I

Removal of litter by a litter crushing mill in our new centrally heated socialist housing developments. p. 169

Vol. 4, No. 5, 1955 Budapest, Hungary EPOLETGEPESEMT

30: Monthly List of East European Accessions, (EEAL), IC, Vol. 5
No. 3, March, 1956

HUNGARY / Chemical Technology. Chemical Products and H-5
Their Application--Water Treatment. Sewage

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8714

Author : Bartha, I., Ivicsics, F.

Inst : Not given

Title : Purification of Drainage Waters from the Petro-
leum Refining Industry

Orig Pub: Hidrol. kozlony, 1958, 38, No 1, 68-77

Abstract: A review of methods for computing petroleum traps
in accordance with Soviet and American practices.
Nomograms are included. --M. Lapshin

Card 1/1

BARTHA, I.

Agricultural use of biogas. p. 355.

MAGYAR EPITOIPAR. (Epitoipari Tudományos Egyesület) Budapest, Hungary, Vol. 7, no. 8/9, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

UNCL

BARTHA, Istvan

Technical aspects of manuring and biogas utilization.
Hidrologiai kozlony 38 no.4:290-298 Ag'58.

BARTHA, I.

Hidrologiai Kozlony. (Magyar Hidrologiai Tarsasag) Budapest.
Vol. 69, no. 2, 1958.

Technical aspects of manure treatment and the utilization of digester gas. p. 290

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 4, April 1959.
Uncl.

BARTHA, Istvan

Sewage questions at agricultural plants. Épületgépészet 10 no.6:
234-239 D '61.

1. Melyépítési Tervező Vállalat.

(Sewage) (Agriculture)

BARTHA, Istvan

Remark about the study by Anna Blum entitled "Sewage purification experiments by hydrocyclone." Hidrologiai kozlony 41 no.2:118-119 Ap '61.

BARTHA, Istvan

The significance of biogas from the point of view of using gas power in Hungary. Épületgépészet 11 no.5:191-195 0 '62.

BARTHA, Istvan

Technical and economic advantages of the design contest of
the sewage purification plant of the city of Kecskemet.
Hidrologiai közlony 42 no.3:205-216 J1 '62.

1. Melyepitesi Tervezo Vallalat, Budapest.

BARTHA, J.

"The Huszinter (Plan of Technical and Organizational Measures) and its statistics in our industrial enterprises." p. 19. TOBBTERMELES. Vol. 7, no. 10, Oct. 1953, Budapest, Hungary.

SO: Monthly List of the East European Accessions, LC, Vol. 3, no. 4, April 1954

BARTHA, Janos, oklevelos kozgazdász

Analysis of the overall production of a mining unit. Bary lap.
98 no.1:36-43 Ja '65.

1. Borsod Seal Mining Trust, Miskolc.

BANKI, Dezső; BARTHA, József; HEGEDUS, József, okleveles villamosmérnök;
TOTH, Otto; FRIED, Arnold; UNK, János; FOLDEAK, Gábor;
NIEWELT, Ferenc; KUCZOGI, Endre

Remarks about Aurel Felkai's entitled "Experiences with the operation of the Hungarian-manufactured heavy-current cables and lines." Villamosság 8 no.2-3:60-62 F-Mr '60.

1. Budapest Főváros Elektromos Múzei vezető mérnöke (for Banki).
2. Lenin Köhászati Múvek energia gyárreszlege főmérnöke (for Bartha).
3. Országos Bányászati Felügyelőség (for Hegedus).
4. Borsodi Vegyi Kombinat főenergetikusa; Nehézipari Minisztérium Nehézipari Főosztálya képviselője (for Toth).
5. EM Szerelőipari Tervező Vállalat, Székesfehérvár (for Fried).
6. EM Szerelőipari Tervező Vállalat (for Unk).
7. Magyar Ásványolaj és Földgázkísérleti Intézet (for Foldeak).
8. Villamosgép és Kábelgyár (for Niewelt).
9. Országos Villamosenergia Felügyelet (for Kuczogi).

BARTHA, Jozsef, dr., foeloado

Correlations between the balance of money circulation and the money reserves of the population. Stat szemle 41 no.5:476-484 My '63.

1. Magyar Nemzeti Bank.

HUNGARY

HARSING, Laszlo, candidate of medical sciences, BARTHA, Jeno, HARZA, Tibor, PELLEY, Klara; Medical University of Budapest, Institute of Physiology (Budapesti Orvostudományi Egyetem, Elettani Intézet).

"Determination of the Amount of Renal Blood Flow and its Intrarenal Distribution on the Basis of ^{86}Rb Accumulation."

Budapest, A Magyar Tudományos Akadémia V. Orvosi Tudományok Osztályának Közleményei, Vol XVII, No 2-3, 1966, pages 303-315.

Abstract: [Authors' Hungarian summary modified] Sapirstein's Rb method was used for the study. In osmotic diuresis, the mean value of renal blood flow was 368 ml/min/100 g which is in good agreement with values of the simultaneously performed direct measurements. The mean cortical blood flow was 430, the outer medullar flow was 344, the inner medullar flow was 151 ml/min/100 g. The intrarenal distribution of blood flow was calculated as: cortex 275 (75.5), outer medulla 74 (20.1), inner medulla 16 mg/min/100 g kidney (4.4 per cent). In hydropenia, the mean RBF was 354; cortex 476, outer medulla 135, inner medulla 66 ml/min/100 g. The intrarenal distribution was: cortex 305 (89.3), outer medulla 29 (8.6), inner medulla 7 ml/min/100 g kidney (2.1 per cent). In hydremia, the mean RBF was 675; cortex 812, outer medulla 457, inner medulla 169 ml/min/100 g. The intrarenal distribution was: cortex 520 (81.8), outer medulla 98 (15.4), inner medulla 18 ml/min/100 g kidney (2.8 per cent). The results indicate that, under the conditions studied, the

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BARTHA, Karoly; SCUADEK, Janos

Freight car unloading machine. Musc olet 16 no.17:12 Ag '61.

(Hungary--Railroads)

BARTHA, Lajos

"Doklady Akademii pedagogicheskikh nauk RSFSR", vol. 1,2, 1955;
a periodical review by Lajos Bartha. Magyar pszichol szemle 17
no.1:114-119 '60

BARTHA, Lajos [translator]

Decisions made at the first congress of the Society of Psychology
of the RSFSR (complete edition). Magyar pszichol szemle 17 no.1:72-
78 '60.

BARTHA, Lajos

"Psychology of feelings" by P.M. Jakobson. Reviewed by Lajos Bartha. Magyar pszichológiai szemle 17 no.3:351-354 '60.

BARTHA, Lajos

"Doklady Akademii pedagogicheskikh nauk RSFSR", no.4, 1957, no.1,
1958; a periodical review by Lajos Bartha. Magyar pszichol. szemle
17 no.3:371-374 '60.

BARTHA, Lajos

"Psychology" by G.D. Lukov. Reviewed by Lajos Bartha.
Magy pszichol szemle 17 no.4:450-453 '60.

BARTHA, Lajos

"Doklady Akademii pedagogicheskikh nauk RSFSR", nos. 3-4, 1958;
a periodical review by Lajos Bartha. Magyar pszichol szemle
18 no. 1: 120-123 '61.

BARTHA, Lajos

Psychology of teen age" by V.A. Krutetskiy and I.S. Lukin.
Reviewed by Lajos Bartha. Magyar pszichológiai szemle 17 no.1:105-
107 '62.

BARTHA, Lajos, dr.

"Doklady Akademii pedagogicheskikh nauk RSFSR", no.3-4, 1959;
a periodical review by Lajos Bartha. Magyar pszichol szemle 19
no.1:116-119 '62.

1. "Magyar Pszichologiai Szemle" szerkeszto bizottsagi tagja.

BARTHA, Lajos, dr.

"Study of feelings in children and adults" by P.M. Jakobszon
[Yakobson, P.M.]. Reviewed by Lajos Bartha. Magyar pszichol
szemle 19 no.2:237-240 '62.

1. "Magyar Pszichologiai Szemle" szerkeszto bizottsagi tagja.

BARTHA, Lajos, dr.

"Doklady Akademii pedagogicheskikh nauk", vol.6, 1959; reviewed
by Lajos Bartha. Magy pszichol szemle 19 no.3:393-395 '62.

1. "Magyar Pszichologiai Szemle" szerkeszto bizottsagi tagja.

BARTHA, Lajos, dr.

"Doklady Akademii pedagogicheskikh nauk RSFSR", vol. 1, 1960; a periodical review by Lajos Bartha. Magyar pszichol szemle 19 no.4:517 '62.

1. "Magyar Pszichologiai Szemle" szerkeszto bizottsagi tagja.

BARTHA, Lajos, a neveléstudományok (pszichológia) kandidátusa; NAGY, László,
munkatárs

Present state of psychology in Hungary and some of its main
problems. Magy tud 70 no.3:182-190 '63.

1. Magyar Tudományos Akadémia Gyermeklelektani Intézete igazga-
tója (for Bartha). 2. Magyar Szocialista Munkaspárt Központi
Bizottsága Tudományos és Kulturális Osztálya (for Nagy).

GEGESI KISS, Pal, dr., akademikus; HORANYI, Bela, dr.; BARTHA, Lajos, dr.;
HORVATH, Laszlo, Gabor, dr.; P.LIEBERMANN, Lucy; PERCZEL, Jozsef, dr.;
LENARD, Ferenc, dr.; CSIRSZKA, Janos, dr.; SEVERINI, Erzsebet, dr.;
KARDOS, Lajos, dr.

The 1962 work of the Committee on Psychology, Hungarian Academy of
Sciences. Magyar pszichol szemle 20 no.3:337-386 '63.

1. Magyar Tudomanyos Akademia Pszichologiai Bizottsaga elnoke;
"Magyar Pszichologiai Szemle" foszerkesztoje (for Gegesi Kiss).
2. "Magyar Pszichologiai Szemle" szerkeszto bizottsagi tagja
(for Horanyi, Bartha, Horvath, P.Liebermann, Lenard and Kardos).

BARTHA, Lajos (Jr)

A newer experimental proof of the theory of relativity. Term tud
kozl 8 no.10:454 0 '64.

BARTHA, Lajos (Jr)

Are there active volcanoes on the moon? Elet tud 19 no.28:1337
10 J1 '64.

CA

9

The manufacture of alumina. Lajos Bartha. *Aluminium*
(Budapest) 1, 206-14, 221-4(1949).--Crit.: discussion of
various methods. Pilot plant expts. are proposed to prove
suitability of the Pedersen-method under Hungarian condi-
tions. 1. Finally

C.A.

1

The processing of Hungarian bauxites with special reference to the Bayer method. Lajos Bartha. Alumina (Budapest) 2, 33-34 (1951).--Alumina in the bauxite ores of Gánt is present in the form of boehmite with slight amounts of diaspor and hydrargillite, these of Ischassentgyörgy consist of almost equal amounts of hydrargillite and boehmite. Both can be processed at operational outputs of 85-90%. The best yields (85-90%) were obtained with bauxite ores of Nyírad (Al₂O₃ 55-7, SiO₂ 2-3, hygroscopic moisture 16-18%). Most of the Transdanubian bauxite can be processed by the Bayer method, except those at Nagyharány, the diaspor content of which inhibits their easy soly. The filtration is performed with great difficulty with ores of Gánt, their sedimentations seemed to be suitable when concn. of liquids and tempn. are held precisely const. The calcination of Ischassentgyörgy ores requires a very uniform heat treatment, therefore, staido furnaces are applied instead of rotating kilns. Processing of bauxites of Ispeény, with 84% 5-7%, by the Bayer method gave good results in pilot plant expts. István Fényi

MAKULA, I.

Cooperation between alumina factories and power plants in the field of thermal economy. n. 42.

(KOHASZATI LAPOK. Vol.12, no. 1/2, Jan/Feb. 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

BARTHA, Lajos (Jr)

The Tiros I artificial meteorological moon. Term tud kozl 4
no.71329 J1 '60.

BARTHA, Lajos; MAETZ, Ervin

The Almasfuzito Alumina Factory is being enlarged. Musz elet 18
no.9:13 25 Ap '63.

TOTH, Sandor; BARTHA, Lajos, fomernok; LORINCZ, Imre

20th anniversary of alumina production in Hungary. Koh lap
9 no. 10:458-462 0 '54.

1. Mosonmagyaróvári Timfold és Mukorundgyar igazgatója (for Toth).
2. Mosonmagyaróvári Timfold és Mukorundgyar (for Bartha).
3. Nehézipari miniszterhelyettes (for Lorincz).

BARTHA, Lajos (Jr)

Interpretation of photographs on the reverse side of
the moon. Term tud kozl 4 no. 6:279-280 Je '60.

BARTHA, Lajos (Jr)

Gas outburst on the moon. Term tud kozl 8 no.4:173 Ap '64.

BARTHA, Lajos (Jr)

Astronomy of the "invisible." Term tud kozl 8 no.12:
538-542 D '64.

1. Secretary, Friendship Circle of Hungarian Amateur
Astronomers, Budapest.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Magyar Kemiai Folyoirat Hungarina Journal of Chemistry vol. 46 1960 no. 11 no ember Z. Szabó and L. Bartha On the mechanism of the reduction of nitrates by means of ferrous hydroxide catalysed by silver 381-391																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

C.A.

7

Determination of nitrate. Zoltan Szabo and Lajos Hartya (Univ. Szeged, Hung.). *Magyar Kem. Folyóirat* 56, No. 2, 81-3 (1950).—Dil. the soln. to be analyzed with water to 80 ml. Add 10 ml. 30% NaOH, boil for 5-6 min. to remove O_2 , add slowly 10 ml. $[\text{Ag}(\text{NH}_3)_2]\text{SO}_4$ soln. (prepd. from satd. Ag_2SO_4 soln.) and 10 ml. 10% $\text{Fe}(\text{NH}_4)(\text{SO}_4)_2$ soln. Boil until red litmus paper remains unchanged in the vapors, add cautiously 40 ml. 30% H_2SO_4 , boil until the liquid clarifies, cool, and titrate the excess Fe^{3+} with 0.1 N KMnO_4 . Run a blank on an equal amt. of distil. water. The presence of Cl^- and Br^- does not disturb the titration. $\text{Pb}(\text{II})$, $\text{Hg}(\text{II})$, $\text{Bi}(\text{III})$, $\text{Sb}(\text{III})$, $\text{Sb}(\text{V})$, and $\text{Cr}(\text{III})$ must be removed with $\text{H}_2\text{C}_2\text{O}_4$ and Ag_2SO_4 . Eight mols. of $\text{Fe}(\text{OH})_2$ are needed to reduce 1 mol. nitrate. Istvan Fialy

CA

7

Titrimetric determination of nitrates. Zoltán G. Szalai and Lajos Bartha (Univ., Szeged, Hung.). *Nature* 166, 300(1950).— Fe^{2+} salts in an acid soln. reduce NO_3^- to NO but in an alk. soln. NH_3 is formed. Cotte and Kahane (C.A. 41, 5051b) found that Ag_2SO_4 catalyzes the last reaction. The NH_3 evolved can be caught in a measured vol. of standard acid and the excess titrated with standard NaOH soln. In the proposed method, the reduction is accomplished in boiling 3% NaOH soln. in which ammoniacal Ag_2SO_4 has been added, by $\text{Fe}(\text{OH})_2$ formed from a measured vol. of standard $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2$ soln. When the reduction of nitrate is complete, H_2SO_4 is added and excess Fe^{2+} is titrated with KMnO_4 . The reaction is $\text{NO}_3^- + 8\text{Fe}^{2+} + 10\text{OH}^- + 6\text{H}_2\text{O} = \text{NH}_3 + 8\text{Fe}(\text{OH})_2$. Because there is some atn. oxidation of the Fe^{2+} it is necessary to apply a correction. M. M.

CA

7

Catalysis in analytical chemistry. I. Silver catalysts in the reduction of nitrates by ferrous hydroxide. Zoltán G. Szabó and Lajos Bartha (Univ. Szeged, Hung.). *Acta Chim. Hung.* 1, 115-23 (1961) (in German); cf. *C.A.* 44, 10595b. — A soln. contg. 3-30 mg. in nitrate is dild. with 10 ml. 30% NaOH and water to 60 ml., boiled 5-6 min. to remove absorbed oxygen, and 10 ml. Ag diammine sulfate soln. and 10 ml. 10% $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_6$ soln. are added. The reduction is complete in 5-15 min., then 40 ml. 20% H_2SO_4 is added to dissolve the black ferrous ferric hydroxide formed. The mixt. is cooled and unoxidized $\text{Fe}(\text{II})$ ions are titrated with 0.1 *N* KMnO_4 . A blank test is made similarly, and the difference shows the amount of ferrous salt required for the reduction of nitrate. The reduction process takes place in 2 steps. First nitrates react with $\text{Fe}(\text{OH})_2$ to form $\text{Fe}(\text{OH})_3$ and nitrite, and as a 2nd step the nitrite and $\text{Fe}(\text{OH})_2$ react to give $\text{Fe}(\text{OH})_3$, NH_4 , and alkali hydroxide. The 2nd reaction is rapid, whereas the 1st step is rather slow. The 1st reaction is accelerated by Ag catalysts. The catalytic effect of Ag is not influenced by the presence of Cd^{2+} , As^{3+} , Sn^{2+} , Sn^{4+} , Al^{3+} , Co^{2+} , Ni^{2+} , Mn^{2+} , Zn^{2+} , Mg^{2+} , U^{6+} , V^{5+} , W^{6+} , Mo^{6+} , Cl^- , Br^- , ClO^- , BrO^- , CO_3^{2-} , BrO_3^- , CO_3^{2-} , SO_4^{2-} , BO_3^{3-} , F^- , CH_3COO^- , $\text{S}_2\text{O}_3^{2-}$, ClO_4^- , or PO_4^{3-} . When, however, Pb^{2+} , Hg^{2+} , Hg_2^{2+} , Bi^{3+} , Sb^{3+} , Sn^{2+} , C^{2+} , CN^- , SCN^- , $\text{Fe}(\text{CN})_6^{4-}$, $\text{Fe}(\text{CN})_6^{3-}$, or CrO_4^{2-} are present, colloidal $\text{Fe}(\text{OH})_3$ is formed and acts as a catalyst poison because of the formation of Ag ferrite. In the presence of I^- , IO_3^- , or IO_4^- AgI forms, and in the presence of S^{2-} and $\text{S}_2\text{O}_3^{2-}$ Ag₂S forms, both of which adsorb Ag ions and reduce the catalytic activity. The mechanism of the catalysis is the formation of metallic Ag pptg. from homogeneous soln. in a colloidal form and reacting with the nitrate instantaneously. The Ag sol has, however, no catalytic activity above a certain particle size.

István Fialdy

CA

A new titrimetric method for the determination of nitrate
by Zoltan G. Szabo and Lajos Hartha (Univ. Szeged,
Hung.). *Anal. Chim. Acta* 5, 33-48 (1951) (in English).—
Nitrate can be reduced quantitatively by $\text{Fe}(\text{OH})_3$ at an
NaOH concn. of 3%. In the presence of Ag diammine sul-
fate as catalyst. In the detn., the reduced soln. is acidi-
fied and the excess Fe^{2+} is back-titrated with KMnO_4 soln.
The most common ions accompanying nitrate do not inter-
fere, while the few interfering ones can easily be made non-
interfering.
Landon A. Surver

1951

BA

1421. Volumetric determination of very small amounts of nitrate.
Z. G. Seabé and L. Bartha (*Mikrochem. mikrochim. Acta*,
1961, 88, 413-418).—The method described previously (C.,
1962, 136) is adapted to the micro-scale, 20-200 µg. of NO_3^- .
To the sample solution, 20 ml. in a 100-ml. flat-bottomed flask are
added 5 ml. of 30% aq. NaOH. The solution is boiled 5 min. and
then 5 ml. of Ag diamminophosphate (4 vol. of 0.35% aq. Ag_2SO_4

and 1 vol. of conc. aq. NH_3) and 5 ml. of 2% $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
are added dropwise during continued boiling. After 5 min. boiling,
the flask is closed by a valve to prevent access of O_2 and 15 ml.
of 30% aq. H_2SO_4 are added through the valve. The valve and the
neck of the flask are washed down and the cool solution is titrated
with 0.01N K_2CrO_7 after the addition of 2 ml. of conc. H_3PO_4 and
3 drops of diphenylamine indicator. A blank determination is made.
For amounts of NO_3^- < 100 µg. the mean error is 1-3%.
D. D. SALTMAH.

2. Alkalimetric determination of nitrate by reduction with copper as catalyst.
 -- Alkalimetriás nitrat meghatározása rézsel katalizált redukció által -- by
 I. Szabo and I. Bartha. (Hungarian Journal of Chemistry -- Magyar Kémiai
 Folyóirat. -- 1962. évi, No. 3, pp. 34-36, March 1962, 1 tab.)
 Tests proved that the catalysing effect of copper on the reduction of
 nitrate ion to ammonia is just as efficient as that of silver, proposed by the
 Hungarian scientists. This principle served as a basis for an analytical process
 consisting essentially of the following phases. The nitrate containing solution
 to be tested is measured into a distilling flask, copper sulphate solution
 and copper chloride solution, sulphuric ferrous sulphate solution and concentrated
 sodium hydroxide solution are added; heated slowly until it reaches the boiling
 point and then distilled for 30 minutes. The flame should be controlled so
 as to ensure a pressure reduction corresponding to a few cm of the water column
 being in the system. Thus the hydrochloric acid in the receiver flask
 is forced into the lower part of the cooler. After distillation, the
 ammonia accumulated in the condenser is titrated in the presence of methylred
 with an 0.1 N carbonate free sodium hydroxide solution. A blank
 test is run simultaneously, and combining the two tests permits the calculation
 of the nitrate content of the sample. Among foreign ions only As^{3+} , Sb^{3+} and Se^{3+} ions
 interfere with the determination.

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BARTHA, LAJOS, G.

The structure and reactions of dinitrogen tetroxide.
Zoltán G. Szabó, Lajos G. Bartha, and Bela Lakatos.
(Univ. Szeged, Hungary. J. Chem. Soc. 1956, 1784-86.)
The reaction between N_2O_4 and I ion shows that in addn. to
symmetrical $\text{O}_2\text{N}\cdot\text{NO}_2$ and its monomer, there is also present
a tetroxide having the ring structure suggested by Longuet-
Higgins (C.A. 38, 5741⁹). Equilibrium equations are given
for the reactions among the types of mols. Equations for
reaction rates with nitrosonium ion intermediates are
discussed.
Lester D. Shubin

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P O R T H

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PARTHA, L.

Tower-shaped construction for distillation.

P. 55 (EPULETOMESZET) Budapest, Hungary Vol. 6, No. 2/3, 1957.

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11 November 1957.
APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000203730003-3"

HUNGARY / Inorganic Chemistry. Complex Compounds.

C

Abs Jour : Ref Zhur - Khim., No 17, 56979

Author : Szabo, Z., Bartha, L.

Inst : Not given

Title : On Reducibility of Nitrate-Ion.

Orig Pub : Magyar tud. akad. Kem. tud oszt. kozl. 1957, 9, No 3,
305-312.

Abstract : A study was made of ion- NO_3 -reduction by action of $\text{Fe}(\text{OH})_2$ under various conditions in the presence of ions Ag^+ or Cu^+ as catalysts, in particular. A direct reduction to NH_3 took place successfully only when the latter was deposited in colloidal form at pH 6-8 (NaOH) or in a heterogenous medium (MgO). Factors, necessary for a full reduction, are discussed on the basis of experimental data.

Card 1/1

Distr: 4E3d

¹⁷
Hydrolysis of dinitrogen tetroxide, Lajos Bartha and
Zoltán G. Szabó (Univ. Szeged, Hung.). ~~Magyar Kém.~~
~~Polymer~~ 62, 294-6 (1957). The results of a previously
published investigation (C.A. 50, 12718g) are substantiated.
It is shown that the hydrolysis of N_2O_4 is much slower than
its reaction with I^- and that the NO_2 mol. does not take
part in the hydrolysis of the tetroxide. F. J. Schmitt...

jc Distr: 4E20

27
✓ Titrimetric determination of small amounts of cobalt with
an equivalent ratio of 1:37. L. Bariha and S. Görg (Univ.
Szeged, Hung.). *Talanta* 17, 200-12 (1968). See C.A. 82,
11855c. Bella L. Rosenfeld

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27

BARTA, L.

HUNGARY/Analytical Chemistry. Analysis of Inorganic Compounds.

E

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70560.

Author : Barta, L., Gárg, S.

Inst :

Title : A Titrimetric Determination of Small Amounts of Cobalt Present in the Equivalent Ratio 1:37

Orig Pub: Magyar kém. folyóirat, 1958, 64, No 2, 48-50.

Abstract: A new method for cobalt determination was developed which makes use of the formation of cobalt nitrite. Co is determined by the amount of NO which is reduced according to the equation: $\text{KNO}_2 + 6\text{Fe}(\text{OH})_2 + 5\text{H}_2\text{O} = \text{NH}_3 + \text{KOH} + 6\text{Fe}(\text{OH})_3$.

Cardq : 1/3

8

HUNGARY/Analytical Chemistry. Analysis of Inorganic Compounds.

E

Abs Jour: Ref Zhur-Khimiya, No 21, 1958, 70560.

Since 6NO_2 combine with 1 Co in cobalt nitrite, 36 equivalents of Fe^{2+} are used for the reduction of NO_2^- and one equivalent for the reduction of Co^{3+} . Therefore, the equivalent ratio of Co in this case is equal to 1:37, thus permitting the determination of small amounts of Co.

For the best results it is recommended that the Co is precipitated in the form of $\text{K}_2\text{PbCo}(\text{NO}_2)_6$, which can be achieved by the addition of $\text{Pb}(\text{NO}_3)_2$ to the solution to be analyzed. It is desirable to carry out the precipitation in the presence of SO_4^{2-} (1-4 times the amount of SO_4^{2-} as compared to Co). After being set aside for one hour, the precipitate is centrifuged, washed with satur-

Card : 2/3

HUNGARY/Analytical Chemistry. Analysis of Inorganic Compounds.

E

Abs Jour: Ref. Zhur-Khimiya, No 21, 1958, 70560.

ated K_2SO_4 solution and dissolved in an alkali, and to the resulting solution an excess of $FeSO_4$ is added. If the amount of cobalt > 0.3 mg, then the Fe^{2+} excess is titrated with a 0.1 N $KMnO_4$ solution.

If the concentration of Co is from 30-300 μ , the Fe^{3+} formed is determined iodometrically. An error of determination is $\pm 1\%$ in the first case and $\pm 5\%$ in the second one.

Card : 3/3

9

BARTHA, Lajos

"Handbook for industrial chemists" by Gabor Szekeres. Reviewed
by Lajos Bartha. Koh lap 96 no.1:45 Ja '63.

1. "Kohászati Lapok" szerkeszto bizottsagi tagja.

BARTHA, L.

Bartha, L.

"The gas tall of the earth." p. 64.
(Idolasas. Vol. 57, no. 1, Jan./Feb. 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

HARTMA, L. Jr.

"The Frequency of Polar Lights in Central Europe." p. 228 (ILUJAPAS, Vol. 57, No. 4, July/Aug. 1953) Budapest, Hungary

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

Bartha, Lajos, 1887-1954

See also: Historical climates (Aurkawn). 7.5-77.

✓ 7.5-225

551.583.3

Bartha, Lajos, Jr., Bacsák György kandidátusi értekezésének vitája. [Debate on G. Bacsák's Thesis for Ph.D.] *Iddjárdi*, Budapest, 58(5):321, Sept./Oct. 1954. DWB-G. Bacsák presented as his thesis: Astronomical interpretation of the pliocene and pleistocene periods. In this work shortcomings of the ice age theory of MILANKOVIC were corrected and another 400,000 years were added to the 600,000 years of paleoclimatic records hitherto available. Subject Headings: 1. Ice ages 2. Paleoclimates 3. Debates 4. Bacsák, G.-G.F.

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BARTHA, L., JR.

BARTHA, L. JR. 140th anniversary of the founding of the Observatory
on Mount Gellert. p. 572.

Vol. 114, No. 9, Sept. 1955.

TEKNIKA ÉS TUDOMÁNY

SCIENCE

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

BARTHA, Lajos (Jr)

"Physics of the earth" by Szilard Zorinvar. Reviewed by
Lajos Bartha (Jr). Hidrologiai kozlony 37 no.1:23 '57

BARTHA, L., JR.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA. Vol. 62, No. 3, May/June 1958~~
IDOJARAS. Vol. 62, No. 3, May/June 1958

Bartha, L., Jr. Correlations between the weather on the planet Mars and sun activity. p. 166

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

BARTHA, Lajos (Jr)

The February 11, 1958 aurora borealis and cosmic radiation. Fiz
szemle 8 no.10:328 D '58.

BARTHA, L., JR.; HEDERVARI, F.

"Some results of the physical investigation of the moon." p. 105.

FIZIKAI SZEMLE. (Eotvos Lorand Fizikai Tarsulat). Budapest, Hungary,
Vol. 8, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

BARTHA, Lajos (Jr)

The prism of Fraunhofer. Fiz szemle 9 no.3:93-94 Mr '59.

1. Urania Csillagvizsgáló.

BARTHA, L., JR.

Relation of cosmic radiation to the altitude at 100 mb. level and the sun activity. P. 110.

IDOJARAS. (Meteorologiai Intezet es Magyar Meteorologiai Tarasag)
Budapest, Hungary. Vol. 63, No. 2, Mar./Apr. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, no. 1 Jan.
1960 Uncl.

BARTHA, Lajos (Jr); HEDERVARI, Peter

Some results in the physical examination of the moon. Fiz szemle 9
no.4;105-110 Ap '59.

1. Urania Csillagvizsgáló, Budapest (for Bartha). 2. Allami Eotvos
Lorand Geofizikai Intezet, Budapest (for Hedervari).

3.1550

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H/016/60/05/005/011
D0023/D3001

AUTHOR: Bartha, Lajos, Jr.

TITLE: The Magnetic Field of Planets

PERIODICAL: Fizikai Szemle, 1960, Nr 5, p 150

ABSTRACT: The article presents various hypotheses on the magnetic field of specific planets of the solar system.
a) An assessment of the magnetic field of Mars has been carried out by the author and his findings were published in the Hungarian periodical "Csillagos Eg", 1960, Nr 1. 50-60 hours after observing the flares of more intense solar eruptions, the transparency of the planet's atmosphere decreased considerably. Assuming that the corpuscular radiation infiltrating at the magnetic poles plays a role in changing the planet's atmospheric circulation, the intensity of

Card 1/3